Notebook, N-00-12-20

117 Ferrous Hydroxide from Ferrous Sulphate after ppn. oxidised by hypochlorite of Soda — It dries to a powder

9 ½ d Empty 3
full 9.j 6.3 —
2.3 pts oxide,
1 pt Graphite —

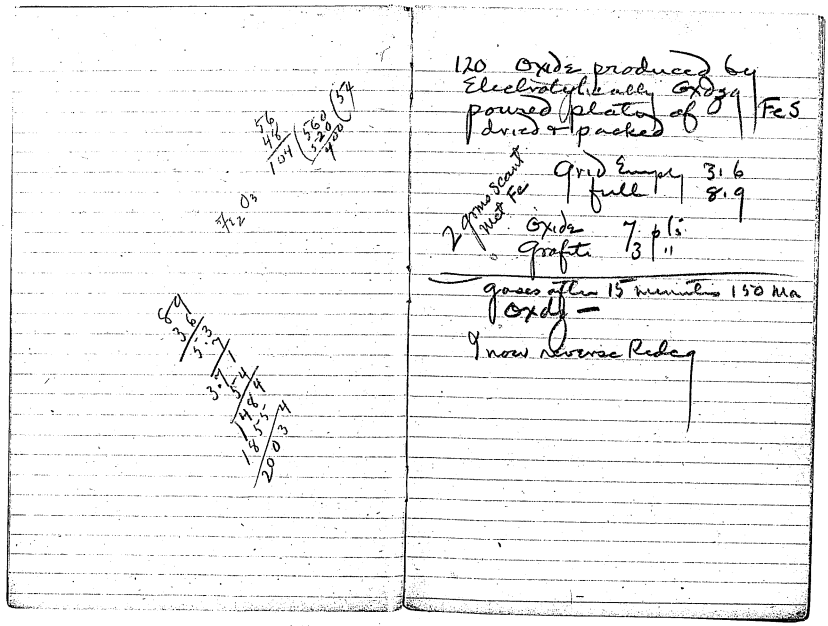
150 ma gasses bad in 5 minutes + light yellow powder comes out

118 Ammoniacal Solution of Sulph Copper - treated with Picric acid — seems to dissolve in Solution although ppt formed was previously treated with KOH — It dont go on reducing with 150 ma

grid Empty 2.7
full 2.7 pb 6.4
precipitate 2.7 pb "
graphite 2.12

119 – Ferrous Oxide ppt. precipitate Ferrous Sulphate by KOH + air oxidized to Ferric – look 30 to 45 minutes on 150 mm before grading –

grid Expt 3
filled pts 7.6
Ferrous Ox 7 pts
graphite 3 pts.


120 Oxide produced by
Electrolytic cell Oxide
poured plates of
dried + packed
Fe S
grid Empty 3.16
full 8.9
2 grams scant
Just Fe
Oxide 7.3 pts
Graphite 11
gases after 15 minutes 150 Ma
Oxide
now Reverse Redox
56
416
104
560
1400
154
5/12
O3
6-3
5-3
3-1
3-1
14-8
14-5
20-3

12| FeS plate oxidized by Current | oxide dropped down on other pole & reduced - some FeS dust in it | it was black wet after drying it was reddish Sulphide comes out in Solution dust gas oxidizing

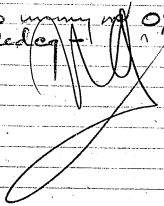
	grid	Empty	5.8
		full	10.7
Oxide	7	5	
Graphite	3	11	

122 Black Magnetic Iron.
Hydrate – dried + powdered
air dried –

Empty 3.1

full 7.15

7 pts Black Hydrate
3 " graphite –



123. Melted stick KOH poured in Saturated Sol of acetaldehyde to get an Anhydrous Oxide — It dries powdery & is undoubtedly Anhydrous like that from Electrolytic Oxide of Fe_2S_3

Empty 3
full 6.5

3 pts oxide
31 pts prep — 5 Mg

New full size grids weigh
180 grammes per pair - P+N eq -

175 pairs weigh with rods etc .66 lbs

Each pair grids will probably have
1 lb of material - making
175 lbs
Total of 241 lbs

Should get 760 mah on little grid this gives
about 25 Volt amp hours per pair -
or 4375 VAH, nearly 6 Hp hours

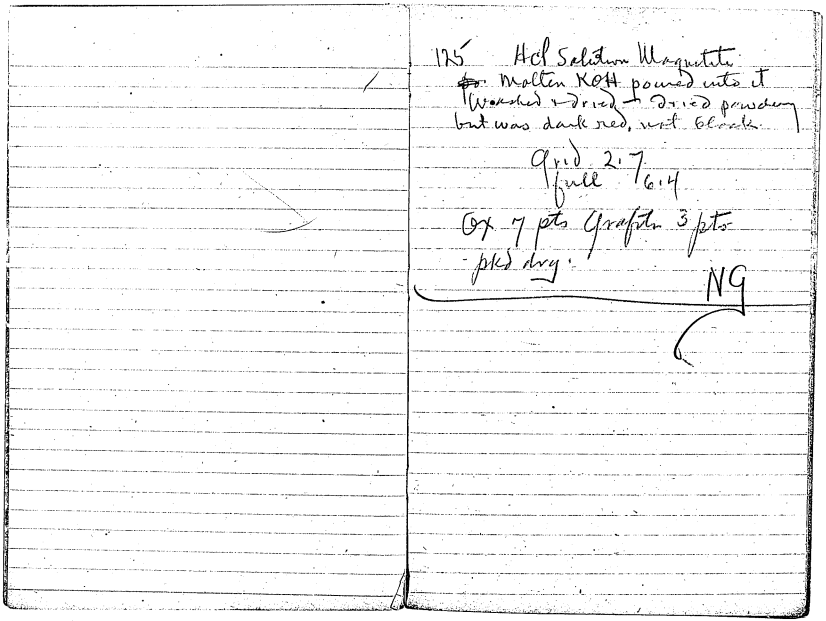
Solution Can probably be got to 60 lbs
Cells to 40 "
Wood etc 75
Asphalt + Enamelins 20

195
241
436

124 Amylum Cht 72
Thrown in Malten KOH,
GX is whitish - -

Empty 3
Pulp 6
GX 2.12 Plo
Graphite 800 milgms Dry pkd

goo in Redag right off —


175 HCl Solution Magnetite
~~Fe~~ Molten KOH poured into it
Washed + dried. Dried powder
but was dark red, not black.

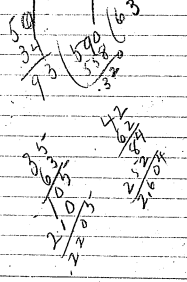
grid 2.7
full 6.4

Ox 7 pts Graphite 3 pts
- pkd dry.

NG

43 – which engine was worth ~~no~~ 598 mah –
at 126 – which has been on all night –
only –

807	340	92	124	
825	257	69.2	100	
835	241	66	97	114
915	102	26.3	60	327



126 Molten KOH poured into Conc
Solution Nickel Nitrate,
This is 1st Batch —

Empty Grid 3
" full 8
3.15 pts Ni ox
1.5 pts graphite —

3.15 of 2.2 Mol Ni ptly 2 –
abt 900 mah theoretical –

43 grid gave 905 mg/h — 43 wrist 1165 Quality Rechgd —
& 127 new Ni Grain on mill morphd

917	300	80.	110	
940	230	61.8	91	101
957	200	53	84	162
1007	185	49	77	194
1033	73	20	50	260
1035	160	44	90	New Fe
1054	121	33	80	305
1103	100	27	78	321
1115	67	18	60	334 Off

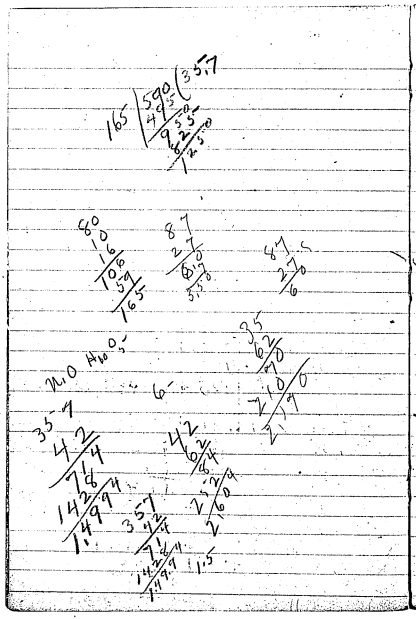
127 | 9r. 5 Sample 3 full | 7.7

Pouring Molten KOH into
Conc'd Sulphuric Medium

No Ox 3.5 pts
Graphite 1.5 pts —
Old Mount KOH

3, wet Ni

908	384	97.	138	
920	333	85	123	
930	301	78	110	
953	240	62.2	103	
1008	112	30	70	273
1124	70	18	60	386 Off



128 Molten KOH poured into Conc Sol Nitrate Nickel

Empty 2.7
full 8.4

Of 3.5 pts
Graphite 1.5
pied mont.

4.2 ~~Ni~~ Ni Ox
If Hydrous about 2.~~8~~ met Ni
Books says has $5H_2O$ - to 4 Ni O,
~~then it had 3.5 / that color~~ making
a little more H_2O though Hydrous is

1117	315	84.2	138	now Fe 1.21
1125	263	71	114	gone 78 much now
1140	226	62	106	100
1153	207	56	104	154
1219	90	24	60	203
1225	82	2/3	60	
1225	127	35	84	now Fe
1252	103	28.2	80	253
110	83	22.2	70	280
				0.66

129 not fully charged Fe gone 50 mph –

127	390	103	136	
152	90			

~~No good~~ not ox enough
100 mph –

6–	360	93	122	
610	310	80	110	
615	275	72	106 –	
620	264	68	104	
630	258	66.2	102	

put it back

50 can run Curve in morning

915	330	84	116	
1014	220	56	94	275
1635	200	51	87	348
1115	170	44	76	468
1125	154	41	75	495
1135	127	34	74	518
1135	177	47	114	New Fe
1140	110	130	75	541 changed Fe
1145	140	37	93	551

129 – New (our pumping) grid 7.4 2.8 4.6

Empty 2.8
full 7.4

Matteson ROH poured into ~~Hook~~
Conc acetach 1Li

3.5 pts ox
1.5 " Graphite – 3.22 Mg rods about 2 inches

Don't seem to go enough graphite because probably Ni this time powder should be up to 206 mesh –
not finer –

gases very little 1st 20 minutes on 150 mph.
after 2 hours very little gas –

1150	130	34	86	562
1200	117	31	84	882
1210	93	25	80	600
1220	62	27	60@55	610 off

This is best yet I think

Zinc bat.

at 6 35 pm put it on

95 Mil amps to run over Sunday

Volts are 86 closed 88 open

6 40 – 80 ma 71 V

72 Volt closed 72 mil amp —

945	300	77	84

130

grid Emp 2.8

full 13.1

7 pts Black Ox Copp

3 graphs —

Probed moist 4th pag

2	210	57.5	80	Bgnt Reserve Ignede
205	213	58.3	82	in 6 Seconds –
220	213	59.7	60	in 5 sec to 80 along –
233	217	60 –	72	
240	216	60	76	in 5 sec – 80 in 15 sec
245	216	60		off —
432			93	no ct —
433	~~285~~	80	86	
445	222	61	70	6th pag
445	420	56	70	
450	510	54.5	60 right	off 78 in 6 sec
5 —	470	54.7	70	To 80 in 15 sec
512	470	55	70	78 – 15 sec
533	490	53	70	" " " 588 Mah
6 —	495	53	66	" 30 — off —

See to left pag 5

131 Tungsten Sulphide by OX+S process Heat

Empty 2.8 new grid
full 11.8

7 WoS + 3 graphite - OX

This dont go at 350 ma Even after 1 Hour

122	310	80	110	as Oxdgble Elec
123	170	46	76	with Ni
125	169	44	70	
137	125	34		

off to OX the Wo —

Not good as Depolarizer but appears promising as Oxdgble Metal but if it may be due to grid — work it up

43 Fe + 87 Ni – Mon put Co-with-ew
1/8 apart.

4th pcg –

						dif –
247	271	101	126 –			
255 –	330	90	112			22
3 —	320	87	111 –	74		24
305 –	315 –	86	110	100		24
310	310	86	110	126		24.5 –
315 –	303	85.3	109	166		
315	320	88.4	112	Put in 40% Sol KOH		
318	332	91	113			22
320	333	91	113			22
327	325 –	88	110.5 –	231		22.5
332	314	86	108			22
342	301	82	103	308		21
350	281	78.3	98	348		19.7
355 –	270	74	96	371		22
402	250	68.4	92	401		23.6
415 –	200	54	82	450		27.
420	150	41	72 ?	464		29

Took it off to recharge –

43+87 again bench change 48 hours
1385 open
4th pay

440	370	110	128	
447	362	107.3	125	
455	345	105.2	126	
500	332	103	125	
505	326	102	123	
510	315	101	122	
515	317	98	119	
520	306	94.5	114	
525	277	90.6	108	
530	278	86	104	
535	272	83.1	101	
540	250	82.3	100	
548	242	81	99.3	
555	240	80.3	98	371
6—	237	80	98	
605	235	78.5	97	410
610	231	76.8	96	
615	224	76	95	448
620	210	72.3	94	
625	197	56	90	483
off 5 minutes				
630	225	56	90	
635	175	44	75	494
640	168	42.4	72	512
645	163	41.5	68	
650	154	40	66	539

~~Had 4 open 5 minutes — next~~ Saturday

655	148	37.7	67	off to Rock

Ox & S fusion process

132 Molybdic Sulphide

Empty 3—
fuel 7.9
Graphite 3
MoS 7 pkd moist

4 tubes — ~~grass right off~~ 6 2 m in 24 hrs

1018	82	22	50	
1020	57	15—		off —

Mo-as oxdzbl. metal

135	270	70	98
140	120	32	55—

off to Oxdzed

Dont work well

goes running down to .4 Volt

as Displzr

old grid

133 Chromium Sulfide by fusion of Cr + S

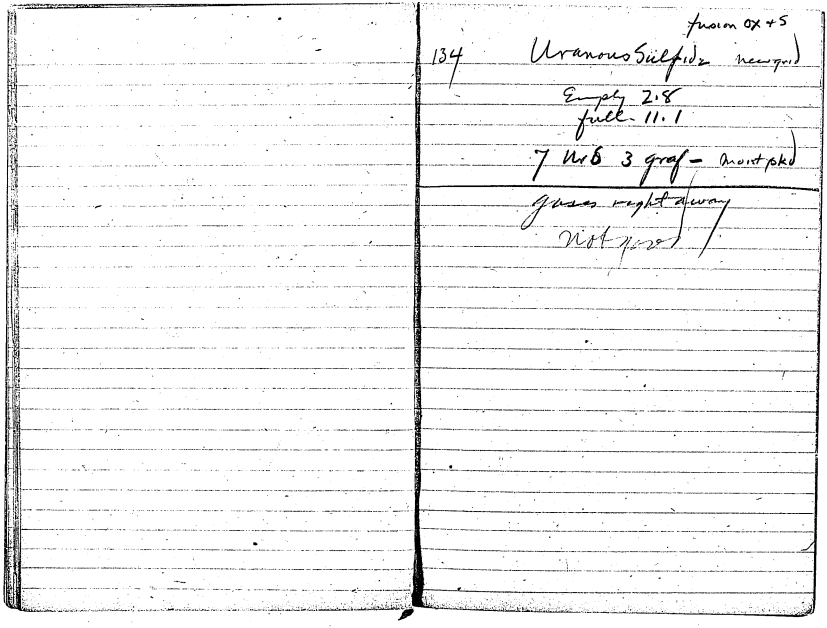
Empty 2.7
finds 8.6

7 pts Cr S 3 pts graphite - pkd moist

gases right off - No S Comes out - Chromate K seems to be formed

goes into Solution

MJ McKay


fusion ox + s

134 Uranous Sulfide (new gel)

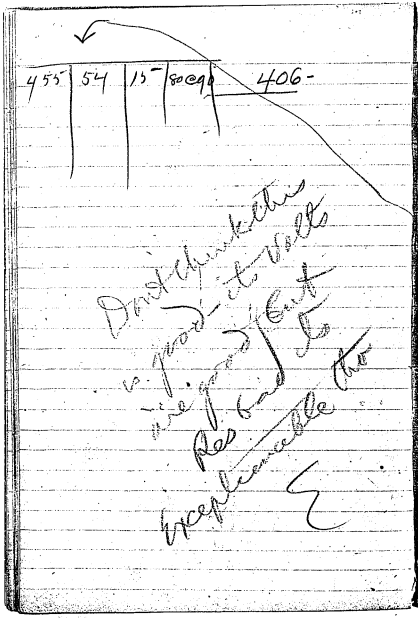
Empty 2.8

full 11.1

7 Nr 6 3 grafs (moist pkd)

grass right away

Not good



135 Ni Hydrate ground hard in mortar
~~Brown~~ so as to not show graphite
chew - used 50% Sat KOH

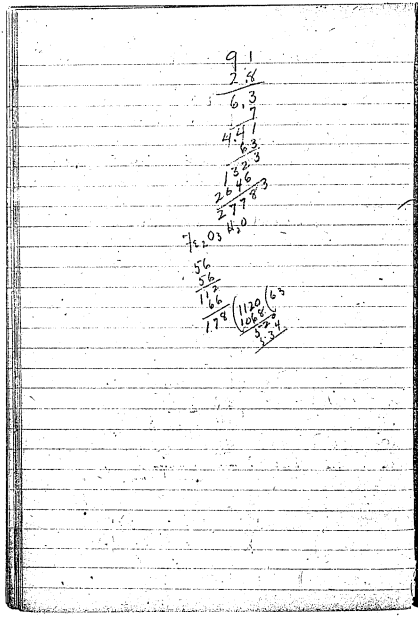
Empty 218
tube 7
7 pts MnO2 3 graphite, new grid

Taken 350 ma without going
over 20 minutes already —

6—	410	105	138	Fe No 120 — 4th prog
608	343	87	130	
617	282	72	120	
627	197	51	102	136

2nd trial — Fe 120 — 4th prog

145	360	96	137	
157	203	53	124	
236	130	34	100	
244	122	33	98	
315	115	30	98	
335	110	29	96	275
340	110	29	96	
341	160	42	130	new Fe —
352	140	36	120	
4—	122	32	112	
4137	62	16	90	



9.1
2.8
6.3
7
4.41
6.3
1.32
3
2.646
3
8.3
2.77
1.10
7e2.03
56
56
112
66
1.68 (1120 (667
1008
112
3.34

136 Ferric Hydroxide Boiled 8 hours
+ dried —
grid 2.8
full 9.1
moistened
7 pts ox 3 graphite, 52% Sat KOH
Nop grid

Gases rapid off on reducing
2.77 · MtF₂ if no acet KOH

1030	298	84	130	
1040	260	77	121	
1047	230	67.5	106	
11—	204	61.5	98	
1125	192	53	94	204
1145	160	43	84	264
1150	150	42	83	277
12—	140	38	80	278
1215	110	30	72	327
1230	90	25	60	352
1245	74	21	60@65	372

OSSN

136 2nd Run - with 94% Ni cat

1130	380	102	130	
1150	260	70	98	
1207	80	22	40	
1208	290	75	107	put new Ni in
1225	150	41	68	
1253	90	24	60	277
105	90	24	60	
105	150	39	75	new Ni
115	84	23	90 m	5 sec

105	365	94	130
115	272	72	102
120	257	66.5	100
225	60	15	

Irregular Change

9 2/6

453	390	100	134	
505	344	88	124	73
515	300	78	108	126
525	265	70	100	173
530	240	63	94	194
535	150	40	70	210
545	100	27	60 @ T	231

48% Ni

137 Sulphide NiS_2 made by Chas 1 up at 9 a.m.

Empty 2:9
full 9:15

7 pts NiS_2 3 pts Q rapids pkd wet with 50% Kott

4 Hr exp

1010	272	78	106	old Fe worked

Kept going right down
always old Fe made no diff.

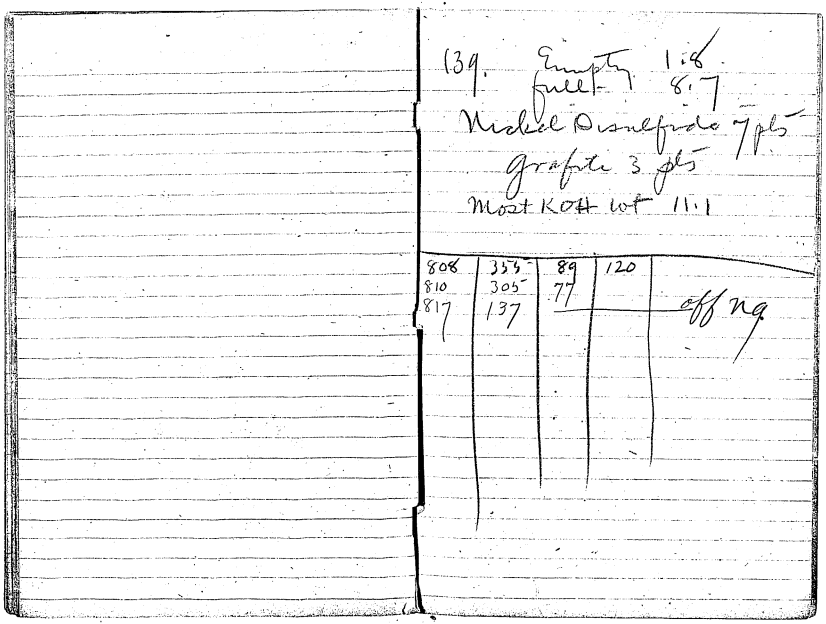
138 Grad Empty 1.8
full 6.2

Manganous Sulphate Di

pbgs 3 MnS_2 7 —

piled wet Rott, 13.5 —
wt wet

It does something
& shows it can be
worked up as a
depolarizer —


139. Empty 1.6
full 8.7
Nickel Disulfide 7 pts
graphite 3 pts
Most KOH wt 11.1
808 353 89 120
810 305 77
817 137
off ng

140 - Empty 1.8
full 7.4 wt.
Ferric Hydrate Boiled by Chas
upstairs 8 hours
6X 7pts
1 was added 6 by ROH
Graphite 3 -
pts wet 50% KOH
about 3.22 Ferric Hydroxide

10 - 105	340	83	118	
1257	353 grms	92 down to	122 100 in 8 minutes	

The Hydrate boiled by Rufus works good yet the dent, both are new punched grids -

7 4
1/16
5 7/16
39 r.

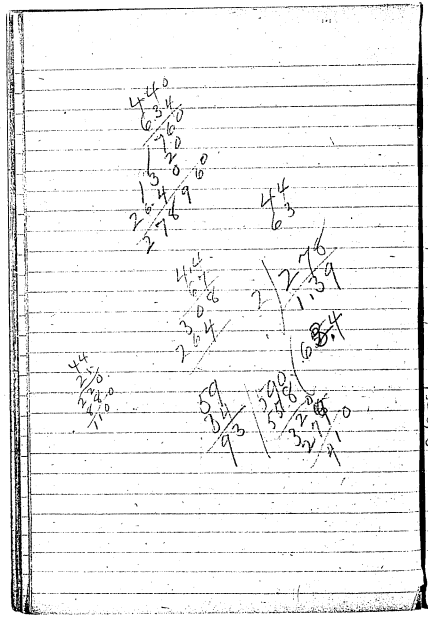
6 5/16
4 6 3/4
7
3 1

141. Empty 1.4
filled 7.6

F&S fused with Camb Nut Nut K.
+ dissolved by water-bath

Crucible 1.5
OK 3.5
Weight out 5.6.

923 957	385 90	97 2/2	129	Off-colour



142 Empty 1.8
full 6.2

Ni Hydrate 4.4 grms

No. graphite —

Wet it with alcohol

On for ½ hour 140 amp no swells grid no gas

If no gas pure + hydroxide — then 2.78 not 1.4.

should give 1.39 amp H.

~~835~~	~~400~~	~~102~~	~~134~~	~~No 121 Fe~~
~~845~~				
900	380	94	124	
905	90			

Evidently got out Fe each
Buckled after 90 & found 1/32 all
black in middle unformed —
Must have 1/16 grid + some graphite of
Eq amount for Cohesion + porosity

143

143 grid Empty 1.8
full 9.4

Sulphide Fe (Thru 30 on 50 FSS) screens 80 particles
will not go thru the 150 mesh hole
of screen — No graphite — 1/8 Thick
Specs — Red mark 52% Both
4.17 grms Metallic Iron

9.4 6
1.3 6
1.1 6
4.1

5.6 3 1/16
3 1/16
6

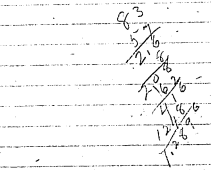
1.6 8 6 (63
5 7 5
3

144 grid empty 5:17
full 8:3

8 pts Na hydrate, 100 on 200 —
2 pts graphite
1/16" Hinck grid cold holes
used alcohol to mountain

1.28 wet lb of Mg

~~255~~	~~312~~	~~76~~	~~122~~
525	385	80	110



3rd 4th pass -

110	300	94	112	
115	233	60	96	
120	204	52	84	
121	235	60	112	new Ni
130	130	34	70	

~66

Cobalts got into it

4th time -

155	378	94.3	106	
1	293	74		+ 51
105	262	67		71
110	235	60		104
120	162	40		10
				75

145. Empathy grid 5.8
field 9.4

Sulfur from 30 on 50, 8 pts
graphite -2 pts

Monostrand with 50% RO
Thin grid 1/16 - 1 old style 6 up perf -

335	325	85	122	
340	262	69	104	
350	210	55	90	
355	172	46	80	
410	120	32	60	

off -

547	337	88	130	
555	264	70	106	40
6	246	67	103	61
605	237	64	100	81
610	225	62	98	101
615	210	57	84	119
625	163	45	78	150
630	150	41	72	163
635	135	36.5	66	174
640	120	33	60	185
645	114	30	58	195

146 Empty 5.6
fulk 8.3
Ni Hyd 150 on 200
4 pts
grafite 1 part - 1/16 grid
Moisture) water out
new -

533	325 goes down	82.3	110	quick 1 ℰ

~~Bio~~ after being out all night - Of
it worked out gave anything stiff
out Carried 9 on Reday it -

1240	322	83	112
1247	220	54	

When goes right down

147

1225	355	92.5	130	
1240	160			mg

147 grid Empty 1.6
full 5.65

Ni blocks OX by syneling
Nitrate Ni very low
heat —

Dont go as hot as 50 deg
before pulling on CT —

4 pts Ni_2O_3 —
1 pt graphite —
wet with water
after wet. 5.5 —

822	245	64	1445	
825	236	60	134	
830	230	58.4	127	
835	start	to go down rapidly		

1448 Empty 1.7

full 5.

16 grs. new

Hydrated Peroxide by Hypochlorite - 4 pts

graphite 1 pt.

Moisture #20 —

not applied wt 5.7

842	340	87	126	
850	195	51	110	
855	120	32	100	48
9—	100	26	96	56
905	80	20	90	68

1/16 grid new pap
axxggg

149 grid Empty 1.7
full 5.3

Ni Hydrate from Sulphate,
boiled several hours —
& filtered washed with boiling
water, air dried, tho not
glassy like Reg dried hard yet
somewhat friable, has lighter
Color —

NiO 3 pts.
Graphite 1 pt.
wt 5.8

No no to grid has worked 1 gm to grid of 6 of NiO
added grid came

837	390	98	132	
840	310	78	123	
845	215	54	112	40
850	130	34	104	54
9—	93	25	90	72
910	80	22	80	86
919	72	18	100 in 10 sec	100
927	65	16.5		
934	60	16	115	

46

150 Sample 1.6
full 4.15

Same as 149

No 4
prog 1
Wt 5.5

This grid plotted inside

937	330	84	114	
958	92	24	86	56
1002	80	21	100	in 6 sec 68
1010	71	18		78

3rd time 4th pcg

805	340	91	120	
812	304	77	110	
825	275	76	106	100
829	250	64	104	117
831	225	57	104	125
833	150	38	90	131
835	128	33		135
845	113	29	80	increase 155

4th time 4th

340	383	97	126	
345	315	81	110	29
355	280	72	105	78
4—	272	70	104	101
405	262	67.5	103	123
410	247	64	102	144
415	170	44	100	161
420	115	30	82	173 off

151 Empty 1.6
full 4.4

Mio fm. Sulphite, boiled Kraft
Mahua
Grafpite 1 3.5 pts
1.5 pts pkd dry

1130	440	113	150		4th pcg
1131	278	120	142		3rd pcg
1135	248	104	131		
1145	100	43	80	53	

331	340	90	114	4th pcg
335	313	81	109	
340	295	76	106	47
346	273	72	104	79
351	130	34	90	91
355	122	32	82	100
4—	118	31.2	80	110
405	114	30	75	119
410	110	28	70	124

157 3rd Run on all Sunday night 4th peg

926	388	98	124	
930	333	85	111	
935	310	79	107	50
940	293	76	104	75
945	284	74	102	99
950	270	70	100	122
955	262	68	96	144
1012	100	26		195
1014	190	38	108	208 new from
1020	130	34	80	216
1025	114	29		226
1030	104	27	65	235

This is more than 1hr

4th time 4th peg

818	370	94	120	
820	352	89	116	
825	332	84.3	112	
830	314	80	110	67
836	302	76.5	107	98
840	297	75	106	118
845	283	72	104	142
850	270	68	103	165
855	250	64	102	186
900	140	35	85	202
905	112	28		
908	172	44	100	207 more
910	152	39	90	217

152 grit empty 1:8 filled 5 5.0 1.5 3.5

Same as 151 except pkd water more

H_2O_2	3.5
grit	1.5
Wt	5.8

117	252	107	124	3rd peg
127	217	83.3	112	40
140	85	38	70	72

off — on all saturday

4th peg

245	347	92	117	
800	294	77.5	106	80
306	270	70	105	108
310	130	34	84	121
316	120	32	75	133
320	118	31		141
325	113	30	80	w 3 sec 151
330	110	28	50	4 sec 160

Thurs 8 Run

915	137	35	80	224
920	127	32	—	238
925	115	29	—	245
930	100	26	—	255 off —

930	360	91	120	28
935	320	80	107	54
940	303	77	104	77
945	258	65	90	77
950	134	34	—	33

off

5 0
1 7
3 3
3 7
1
2 3

V

2 5 7
2 1 8
6 4 0

153 = Empty / Tube 1.7 / 5

Ni 3.5 moist
graffiti 1.5

This is designated Zinc dust in warm Sulphate Nickel Nisulfate — Excess after quiet Excess poured off. then Water washed, then treated with dilute H_2SO_4 - till it clotted then filtered & dried by pressing with Spatula on Blotting paper

226	362	90	117	
235	190	46	60	41
240	67	18	26	52

formed Zn in other pt. 2nd run 4/15

1032	357	92	116	
1035	332	83	110	
1040	314	80	106	44
1046	152	40	50	67
1050	100	25	—	75

Left pan

1135	115	29	75 3rd		193
1140	110	28	68 3rd		262
1145	105	27			211 off
			3rd	Curve	

458	370	94	122		
505	310	86	106		34
510	296	76.2	103		59
515	283	73	100		93
520	270	70	96		106
525	252	66	92		128
530	230	60	86		148
535	105	29	75		162
536	170	44	102	new Fe	
540	140	36	80		172
545	125	322	72		183
550	113	28			195
555	110	27.6	62		202
					off

953	350	88	116		46
1000	315	80	106		90
1010	294	75	104		180
1020	285	72.5	101		180
1030	253	65	96		185
1035	160	36			197
1035	130	32	80		197
1036	175	43	100	new Fe	200
1040	155	38	83		211
	153	38	80		215

Changed to Bottle with long tube

248 max OS

154

Empty 1:7 filled 4:7 about 1.3 meters

Boiled Ni Hydroxide from Sulphate

3.5 pts Ni
1.5 graphite, dried dry

Mixed with some fine asbestos fibers - to give porosity + swell it,

411	330	86	110.		
415	302	78	104		21
422	110	30	70		45 new Iron
424	140	37	80		48
430	110	30	70		60
					2nd

1051	372	94	120		
1057	335	85	110		
11	329	83	107	62	
1105	319	82	106	89	
1110	311	78	104	115	
1115	302	76	104	140	
1122	140	36	90	166	
1125	130	33	75	173	See left hand
1130	122	32		165	

420	380	95	122	35
426	320	80		35
432	300	75	103	66
440	135	35		100

neg

32 66 145
6
60 10 10
24 4 4

155 Empty 1.15
full 412
Bottle Hydrate Mi 315
grog 115
pld dry Sewed

430	355	94	120	
438	300			43
440	135	36	73	53
445	125	33	70	64
450	115	30	55	74
455	106	28		83

2nd 4th p

1145	370	93	117	
1150	320	82	105	
12	280	72	100	79
1206	130	43	80	99
1210	122	32		
1220	110	28		126
1227	100	26		138

156 Empty 1.75
full 5.20

plain Mi Hydrate (big cat) 3.5 pb

graft thro 50 on 60 1.5
fines

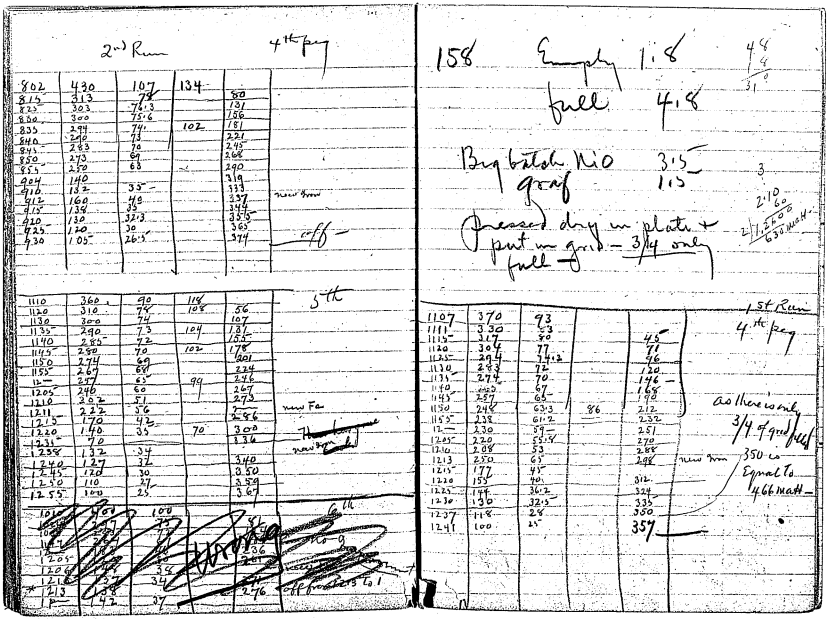
Moist with H_2O — 5.7

157 Empty 1.7
full 4.17

Big lot Ni Hydroxide 3.15
graphite thro 30 on 50 — 1.5
Moist H_2O — 5.7

Put it in Solution KOH at
Chlorate in 5 minutes
Changed Solution to
Hypochlorite Soda for Melting off

Cut grinded up



2nd Run

4th prep

802	430	107	134		80
815	313	78			101
835	303	74.3			180
850	300	75.6			181
855	299	74	102		221
910	290	72			245
915	283	70			268
850	273	69			290
855	270	68			319
944	140				333
910	132	33			337
915	160	40			347
10	136	33			365
420	130	32.3			365
425	120	30			365
430	105	26.3			374

New Form

coffee

1110	360	90	118		56
1120	310	78	108		107
1130	300	74			181
1135	290	73	104		181
1140	280	72			178
1145	250	70	102		201
1150	274	69			224
1155	267	68			245
12	247	63	99		267
1205	240	60			273
1210	202	51			286
1211	222	56			
1213	172	43			
1220	140	35	70		300
1231	70				336
1238	132	34			
1240	127	32			340
1243	120	30			350
1250	110	27			359
1255	100	25			367

New Form

Thermometer

5th

101	460	100			
105	400	92			
110	370	92			
115	370	92			
120	370	92			
125	370	92			
1206	370	92			
1210	370	92			
1213	368	92			
1215	368	92			

6th

1220	368	92			
1225	368	92			
1230	368	92			
1235	368	92			
1240	368	92			
1245	368	92			
1250	368	92			
1255	368	92			
1300	368	92			
1305	368	92			
1310	368	92			
1313	368	92			
1315	368	92			

6th Finishes to 1

158 Empty 1:8 44 4 31

full 4:8

Big batch Nio 3:5 3 2:10 60 2:12:00 630 Mesh

grad 1:5

Pressed dry in plate + put in grid — 3/4 one full

1107	370	93			
1111	330	83			
1115	307	80			45
1120	304	77			71
1125	294	74.2			96
1130	283	72			120
1131	274	70			146
1140	260	67			165
1145	257	65			190
1150	248	63.3	86		212
1155	238	61.2			235
12	230	59			251
1205	220	55.4			270
1210	208	53			288
1213	250	63			288
1215	177	45			
1220	155	40			312
1225	148	36.2			324
1230	130	32.5			335
1237	118	28			350
1241	100	25			357

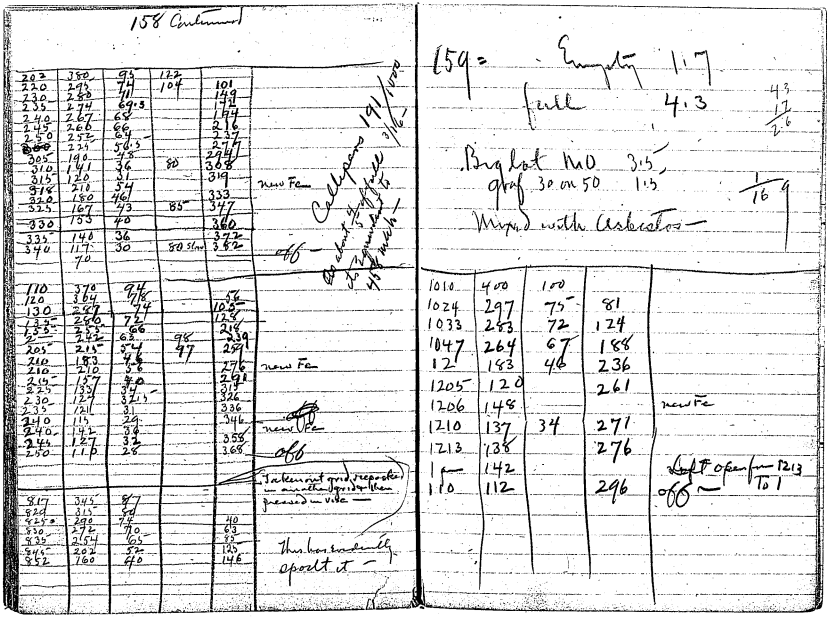
1st Run

4th prep

as there would 3/4 of grid full

New Form

350 to Equal To 466 Mesh



158 Continued

203	350	95	122		
220	295	74	104		101
230	283	71			149
235	274	69.5			142
240	267	68			144
245	260	66			216
250	252	64			227
255	233	58.5			277
305	190	48			294
310	141	36		80	308
315	120	31			319
318	210	54			
320	180	46			333
325	167	43		85	347
330	155	40			360
335	140	36			372
340	117	30		80 Slow	382
	70				
110	370	94			96
120	284	72			105
130	247	64			128
135	230	72			214
155	223	66			239
2 —	215	63		98	259
205	215	54		47	
210	183	46			276
210	210	52			291
215	157	40			314
225	135	34			326
230	127	32.5			336
235	121	31			346
240	115	29			
240	142	36			358
245	127	32			368
250	110	28			
817	345	87			
820	315	80			
825	290	75			40
830	272	70			63
835	254	65			92
840	232	57			125
852	200	50			146

191/1000
3/16

Calgon

New Fe

06 —

Statement quite reasonable in view of the known pressure in vicinity —

Thurber undoubtedly operates it —

159 = Empty 1.7

Full 4.3

43
17
26

Bright Mud 3.5
grad 30 on 50 1.5

1/16 9

Mixed with Asbestos —

1010	400	100		
1024	297	75	81	
1033	283	72	124	
1047	264	67	188	
12	183	46	236	
1205	120		261	
1206	148			new Fe
1210	137	34	271	
1213	138		276	
1 —	142			Left open from 1213 To 1
110	112		296	06 —

160 Empty 1.8 45
filled 4.13 1/2
Nitrohydrochloric by batch .5 21.7
Asbestos no grit. 450 milgm
pkd dry -

1100	372	74	120		
1105	130				ff-
			2nd		
103	430	108	140		
107	160	40			ng

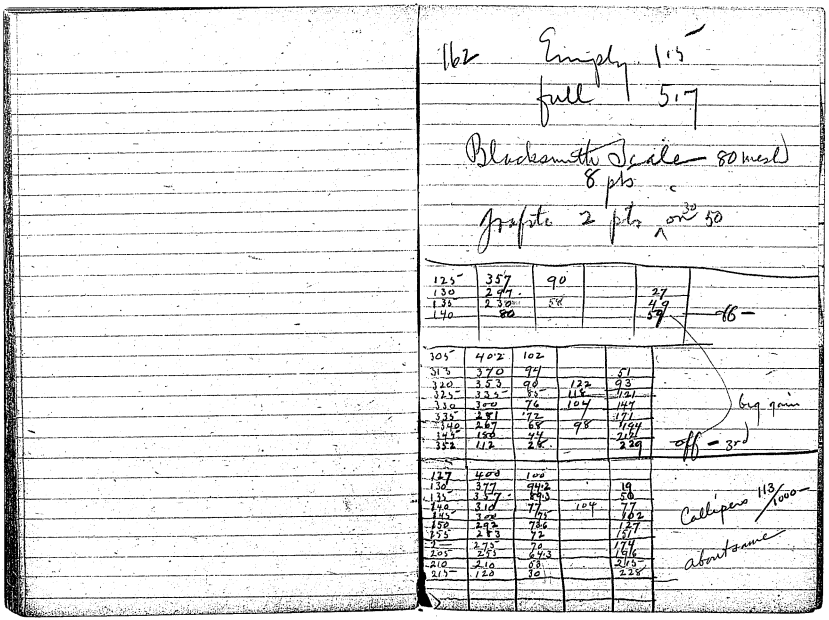
161 Empty 1.6
filled 5.1

Electrolytic Ox Fe from FeS — 3.5

No prep —
pressed hard as plate —
grid about 3/4 full —

5.1
1.6
3.5

1007	350	80		
1008	100			gas right down Bubbled while gas no Contact



162 Empty 113
full 5.7

Blacksmith Scale — 80 mesh
8 pts.
graphite 2 pts on 50

125	357	90			27
130	294				49
135	230	58			64 — 16 —
140	80				

305	402	102			
313	370	94			51
320	353	98	122	93	
325	332	85	118	121	
330	300	76	104	147	
335	284	72		171	
340	267	68	98	1484	
345	150	44		2484	
352	112	28		229	

big gain
off — 3rd

127	400	100			
130	377	94.2			19
135	337	89.3			58
140	310	77	104		77
145	300	79.5			162
150	292	78.6			137
155	283	72			157
200	270	70			1676
205	258	65.3			2176
210	210	68			2178
213	120	30			228

Calipers 113/1000
about same

163= Empty 1.175
full 4.18

Ni Hy bag batch 200 mesh+fines 5
Cement carbonates ppt fine - 1/2 gram -.
Mercuric) 1st batch then added room dry
pressed to a plate on big screw press
1/5 full

164 Been Reducing
3 days Cut on test
Showed that Ni Hydroxide
does not reduce to
Metal =.

164 Empty 1.7 4.8 1.7 3.1
filled 4.8

Ni Hydroxide (Big bottle) Hero 200 mesh .8
Graphite 30 on 50 — Moistd KOH — 2
plate pressed in screw press
Extra pieces from side put on top
as grid is full —

110	200	50			end Contact —
115	285				"
118	350				
120	334	88		50	
126	307	76		83	
132	274	69		126	
140	247	63		148	
145	239	59		168	
150	204	52		186	
155	182	4612		207	
2 —	148	38		216	
212	110	27		241	off — 2nd
1009	458	112	138		
1010	420	105	124	22	
1013	371	94	118	53	
1020	356	88		80	
1025	307	7612		112	
1032	270	68	108	136	
1039	240	61	107	157	
1045	200	50	107	187	
1050	178	43		209	
1055	170	38		223	
1102	130	13		238	
1109	120	30	109	244	off

165= Empty 1.7 5.6 1.7 3.9

full 5.6

Millsheet (Bigbend) thru 200 mesh 3.9 net no graf

Dwells grid bed — 13/64 off 24 hours 3 1/4 16th

pressed in plate, by Screenplow Dry

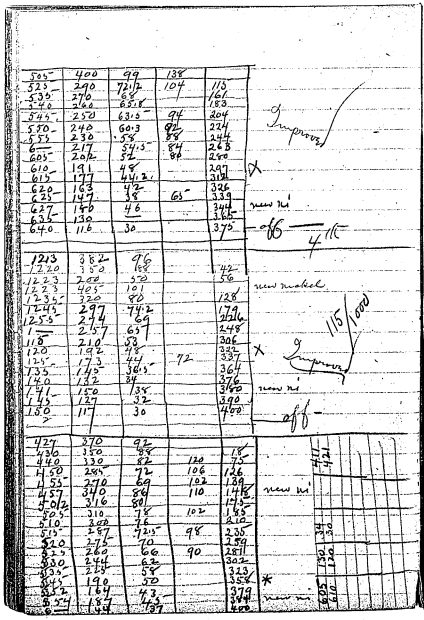
Xtra pieces from sides put on top so grid is full —

12 1/2

3 1/2

6 1/2

3 1/2



325	400	99	185		
335	290	72½	104		113
535	270	68			161
540	260	63½			183
545	250	63½	94		204
550	240	60¾	88		224
553	230	58	88		244
6	217	54½	84		268
605	206	51	84		290
610	191	48			297
615	177	44½			312
620	163	42			326
625	147	38	65		339
627	140	46			344
630	130				385
640	118	30			375
1213	382	96			
1220	350	102			142
1223	268	52			56
1223	405	101			
1235	320	80			128
1245	297	74½			179
1255	274	69			2216
1	257	65			248
118	210	52			306
120	192	48			325
125	173	44		72	337
135	145	36½			364
140	132	34			376
145	120	135			3480
145	127	32			390
180	117	30			400
2					
427	370	92			
430	350	88			18
440	330	82		120	72
450	284	72		106	126
455	270	69		102	138
457	340	64		110	148
5002	316	60			175
505	310	78		102	185
510	269	72			210
515	267	72½		98	235
520	275	70			259
525	260	66		90	281
530	246	62			302
535	238	58			323
541	190	50			358
545	167	43			379
550	147	37			400

Improves

new nickel

115/100

Improves

new nickel

off

new nickel

					447
					427
					407
					387
					367
					347
					327
					307
					287
					267
					247
					227
					207
					187
					167
					147
					127
					107
					87
					67
					47
					27
					7
					190
					170
					150
					130
					110
					90
					70
					50
					30
					10
					605
					600

Hde Empty 1.6 — 6.4 / 1.6 / 4.8

full - 6.4

Blanchard Scale 200 mm 8

grafite 30 on 50 2

Meast with Kbth.

plate pressed was new press

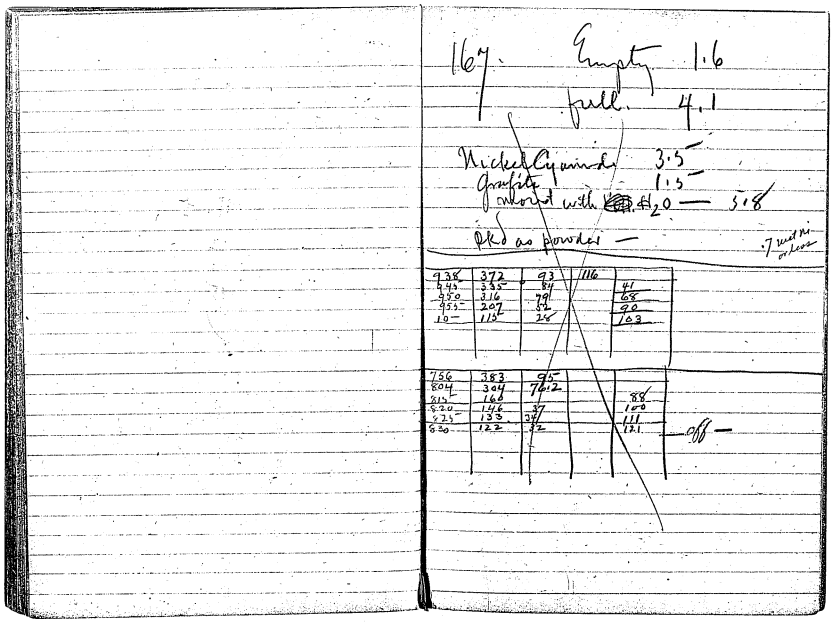
X'ed pieces from under punch top - grid is full,

1009	373	93		
1010	855	90		6
1015	330	82		34
1020	285	72		60
1025	270	68		83
1030	253	64		105
1035	230	57½		125
1040	194	38		142 X
1045	145	37		156
1050	112	28		167
325	335	89		
325	285	82		28
330	277	70		53
335	270	67½		76
340	250	63½		119
345	240	60		134
350	230	57		159
3	212	54		177 X
5	190	130		224
3212	112	25		233

2nd

Improves

off



167 Empty 1.6
full. 4.1

Nickel Cyanide 3.5
graphite 1.5
coated with H_2O — 5.8

PKO as powder —

.7 wet in place

938	372	93	116	
943	335	84		41
950	316	79		68
955	207	52		90
10	115	29		103

756	383	95		
804	304	76.2		
215	164			88
220	148	37		100
225	133	34		111
230	122	32		121

off

168

145	133	34		412
145	150	45		730
152	130	33		430
155	112	24		440

new ml

off. 130/1000

158	413	104	124		782
222	173				135
226	165	92			158
230	327	82			184
235	300	76	108		294
243	292	68			
253	269	68	104		
303	250	63	96		
313	215	54			367
321	140	32			342
327	310	77			
341	208	43			402
351	170				433
1	172	36		64	456
40	120	32			478
45	115	29			488

new ml

166

Empty 1.165

full 6.125

6.25
6.3
6.0

9 rimsulphide Hero 200 mesh 8

Grafite 30 m 50 — 2

Moisture Off

3.1689 gms
150.

pressed in plate on bag down press
good full pieces taken from sides
placed in top

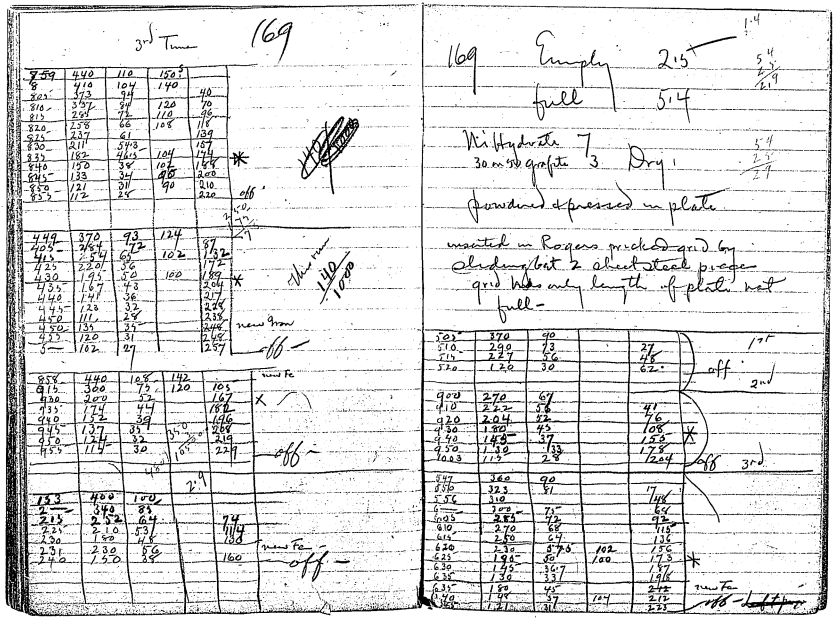
518	335	84	120			not fully charged
520	312	78				
525	270	70			35	
530	260	66.2			58	
535	220	53			74	
540	150	35			93	
541	170	43				new ml
545	120	30			103	

76

1157	385	96			
1202	367	92			81
1210	311	78			76
1215	290	73			101
1220	286	72			125
1225	280	71			149
1230	273	69			173
1235	267	67			197
1240	257	165	100		2.124
1245	243	62			2.34
1245/10					
1250	240	61			
1	243	59			2.78
105	233	58			
10	332	83			
115	302	753			292
120	277	69			3.16
125	252	64			3.38
130	222	56			3.58
130	1.567	47	84		3.72
135	1.00	425			3.83
140	190	46			1.00
145	175	40			

new ml

left



3rd Time 169

8:59	440	110	150		
9	410	104	140		
805	373	94		40	
810	357	94	120	70	
815	298	75	110	96	
820	258	66	108	118	
825	237	61		139	
830	211	593		157	
835	182	463	104	174	*
840	150	38	107	188	
845	133	34	98	200	
850	121	31	90	210	
855	112	28		220	off

449	370	93	124		
453	348	72		87	
458	254	65	102	132	
503	220	56		172	
508	195	50	100	189	*
513	167	43		204	
518	148	38		217	
523	123	32		228	
528	111	28		238	
533	132	33		244	
538	120	31		245	
543	102	27		257	off

858	440	108	142		
903	300	73	120	103	
908	209	52		167	
913	174	44		182	
918	132	39		196	
923	137	35		208	
928	124	32		219	
933	114	30		229	off

153	400	100			
158	340	83			
203	252	64		74	
208	210	53		114	
213	180	48		138	
218	230	58			
223	150	38		160	off

169 Empty 2.5 5.4

full 5.4

Mix Hydrate 7 3 Dry 1

30 min graphite

powdered + pressed in plate

inserted in Rogers press + ground by sliding bit & sheet steel press grid was only length of plate not full

503	370	90			
510	290	73		27	
514	227	56		48	
520	120	30		62	off

900	270	67			
910	232	58		41	
920	204	52		76	
930	180	45		108	*
940	145	37		152	*
950	130	33		178	
1003	113	28		204	off

547	360	90			
556	323	81		74	
6	310			48	
603	300	75		64	
610	270	68		92	
615	250	64		115	
620	230	57.5	102	136	
625	190	50	100	173	*
630	155	36.7		187	
635	130	33		196	
635	180	45		222	
640	164	37	104	242	
645	127	31		233	off

169

828	400	101	182	67
840	265	70		88
845	230	138		106
850	203	52		122
852	190	48		137
9	170	44		

* This had a loose [illegible] no improvement.

170

Empty 2·85

full 7

Ni Cy ½ 7 pts
graf 2 mos. 3 11

plate weighed 2·1 grams

pressed dry - Rogers grad

830	290	72				
835	245	62				
840	200	51				
852	130	33				

eff -

171 Empty 2·8

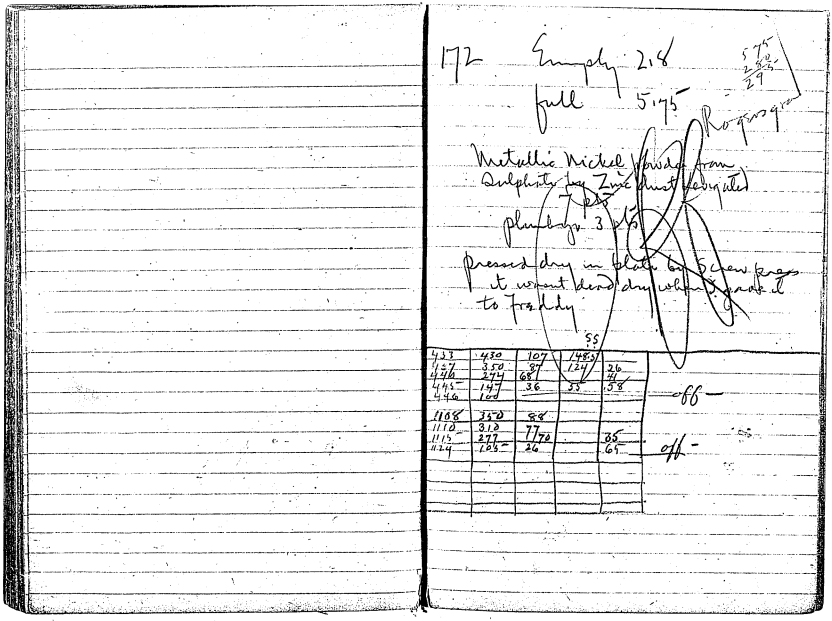
Anhydrous Ni Oxide 7 pts
Grkf 30 on 50 3 pts

Moist weight KOH, Rogers gel

Weight of pressed plate 3·85

guess weight away

Ng —


172 Empty 2.48
full 5.175
Metallic Nickel Powder from Sulphate by Zinc Dust Precipitated
plumbago 3 1/2%
Presses dry in Plate & Screw Press
it would keep dry when dry if it
to Fred Eddy
55
433 430 107 148.5 26
1127 350 87 124 31
1446 274 68 96 34
1445 147 36 53 58
1446 100 -86-
1108 330 88
1110 312 77 70 85
1115 277 26 69 -84-
1124 105

173

Empty 2.8 Rejected
full 6.3

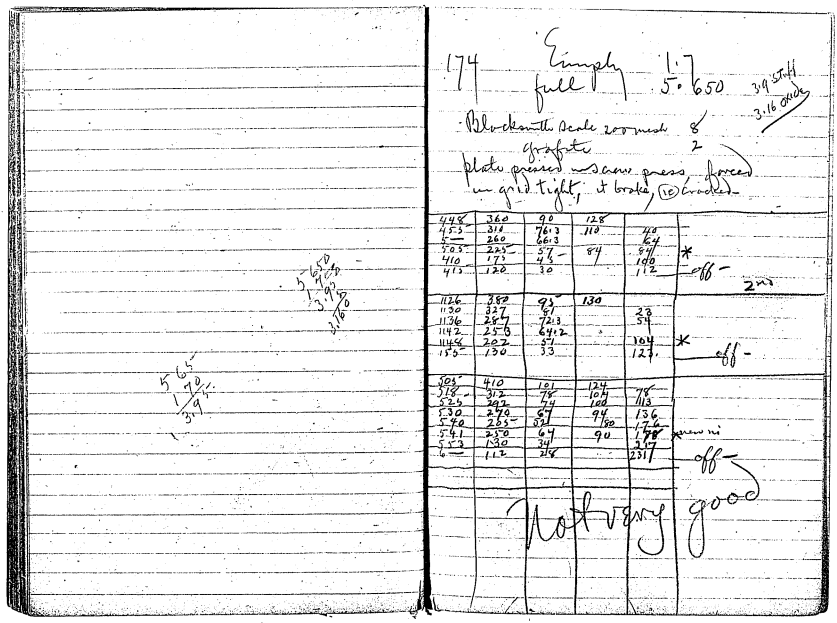
6.3
2.5
3.5

Mixed water Lot made worked with blanket + two tubes
Ogden Co
graphite

8 lbs
2 "

plate pressed dry screw press— it was not quite dry when given to Bell

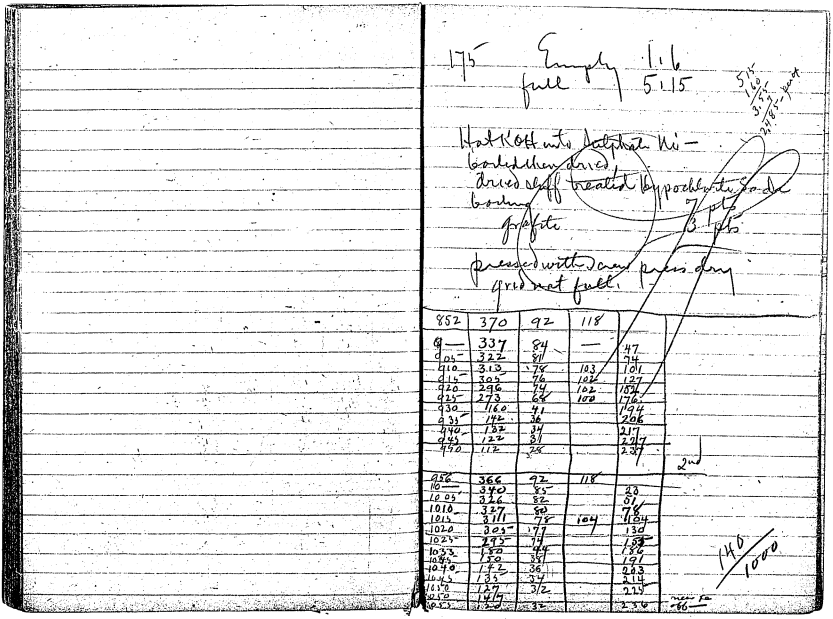
410	180	46				
425	110	30			40	mm Ni
426	250	70			52	orb — 2 no
420	110	29				
1048	410	101				
1053	303	76			41	
11—	242	60			63	
1105	52					Ng



174 Empty full 1.7 5.0 650 3.9 5th 3.16 orde
Blacksmith Scale 200 mesh 8
graphite 2
plate pressed w screw press, forced in grid tight, it broke (10) broken

448	360	90	128			
453	314	76.3	110		44	
500	260	66.3			64	
503	225	57	84		84	*
410	173	43			100	
413	120	30			112	off
						2m
1126	380	95	130			
1130	327	81			28	
1136	284	72.3			54	
1142	258	64.2				
1145	202	51			104	*
150	130	33			127	off
505	410	101	124		78	
518	312	78	104		113	
525	242	64	100			
530	270	67	94		136	
540	255	63	90		176	
541	250	64	90		178	
553	190	34			217	
6	112	28			231	off

Not very good



175 Empty 1.16
full 5.115

5.15
1.16
3.99
2.18 part

Hot Koff with Sulphur Mi—
bowels dried
dried stuff treated by possibly too-de
bowing
profits
3.15

pressed with Scrap pieces dry
grad not full

852	370	92	118		
9—	337	84	—		
905	322	81			47
910	313	78	103		101
915	302	76	102		127
920	296	74	102		154
925	273	68	100		176
930	160	41			194
935	142	36			206
940	132	34			217
945	122	31			227
950	112	28			237
					2nd
956	366	92	118		
10—	340	85			20
1005	326	82			51
1010	320	80			75
1015	311	78	104		104
1020	303	77			130
1025	295	74			158
1033	280	69			184
1045	150	38			197
1050	142	36			223
1055	133	34			245
1100	127	32			270
1105	122	32			286

140/1000

176 Empty 1:6
filled 5:1

Blacksmith Scale thro 200 mesh 8 pts
Graphite 30 on 50 2 "

Red cardboard paper mount with KOH
in between so it will swell & force
Scale against inside wall
sides —

Plate - pressed in big Owens press

421	365	92			
123	350	87½	122	24	
435	290	73		77	
440	270	68		100	
446	257	64		122	
453	198	50		162	
423	240	60		176	new ni
502	100	26			

MG

177 Empty 1.55

full 5.150

Blackening scale with
Candle and Center 1/16 to scale 8
bowlled —
graphite , 2

1051	430	108	138		
1149	357	88	118	91	
1113	302	76	100	146	
1120	267	67		170	
1125	205	49		198	
1140	52	14		219	

1400 plates 10/1000 Thick 35 lbs Rubber

Remarks
Corrugated rubber to go 6st plates 1/32
perforated $\frac{1}{16}$ holes 1/32 apart.
$1\frac{1}{2} \times 2\frac{7}{16}$ weight before punching 1 gram
after .650 — 14/1000 thick

178 Empty 1.75

full 5.155

Known drop

transcale weighing test 20 mark 8

graphite

pressed in screw press to plate

w/ carborundum

822	928	104	134	
830	810	77		146
440	263	66		195
810	142	836		179
855	110	26		1481

179 Empty 1.6
full 5.6

Warming from scale at red heat 8
graphite 2

pressed dry mix screw pressure
broke in pulling in 2nd Mng

730	403	100	130		
740	330	83	110		61
755	262	66	90		135
806	153	38			174
810	123	32			183
917	150	40			new ni
915	112				off
	~~107~~				

953	370	100			
10—	362	92	128	44	
1005	342	88	126	74	
1015	313	79	116	124	
1020	297	72	106	153	
1025	262	67	100	170	
1032	231	60		203	
1037	190	50		220	
1047	295	73		—	new ni
1045	262	68	88	260	
1052	237	60	87	281	
1053	209	52		300	
11—	164	42	70	313	
1105	138	34		327	off

180

345	197	50			231
346	216	52			
355	170	43			267
1	137	40			276
413	126	32			366

new Fe

180 Empty 1.65 450
full — 4.50 165
2.85

over new 1/16 punched grid —

Hot KOH projected onto fine nickel
crystals, then pt boiled followed
dried, ignited, reduced rather fine — 7 pts

Graphite — pressed in a plate by screw press — 3 pts,

9—	370	92	120		56
910	293	79			
920	293	74	103		106
925	282	72			130
930	264	67			153
935	139				169
936	152	39			180
940	130	34			191
945	134	32			201
950	120	31			

(153) X new Fe — off

put it on Counter reducing for a while —

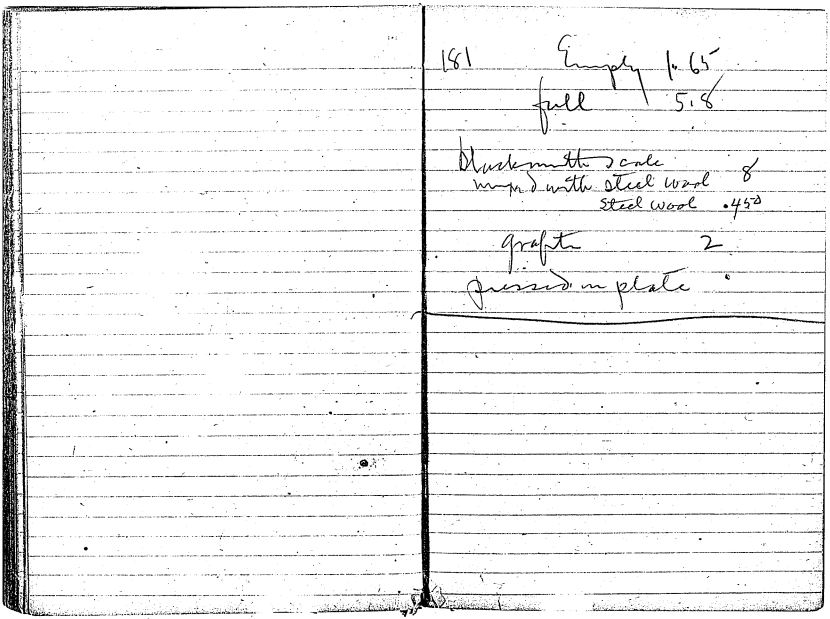
2nd

9—	366	92			30
905	322	81	104		81
915	296	74			105
920	286	73			125
925	278	70			144
932	260	66	98		173
940	237	60			194
943	200				
945	202	52			
950	192	50			211

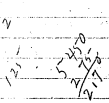
3rd (211)

250	370	92			
3	330	82			30
310	292	74			62
325	280	70			122
331	260	66			194

next p 12


181 Empty 1.65
full 5.8
Muskegon Iron scale
wrapped with steel wool &
steel wool .452
graphite 2
pressed in plate

1037	193	49		251
1040	170	43		260
1045	137	34		273



162 Empty 2.175
full 5.458

Hot KOH saturated with Cone washed
Acetate pp boiled, filtered 3 times
+powdered Graphite swelled with KOH 7 pts / 3 pts
pressed in plate, Rogers grid—

805	480	108	135	98	164	164
820	350	80	106	184		
835	280	62	103	170		
836	150	38		178		
842	140	36		182		
850	133	34		184		
905	115	29		187		off
312	360	90		22		
316	318	80		113		
335	273	69		137		
342	257	65		179		
350	247	61		224		
409	100	24		231		
408	190	35		246		new Fe
416	180	33		258		
421	112	28				off
950	437	110	139			
955	403	101	130	35		
10	380	96	124	88		
1010	327	82	107	128		
1015	313	75	101	154		
1020	304	77	101	1501		
1022	293	74	104	205		
1038	270	68		224		
1033	166	40		238		
1034	220	54		241		

241 left/pos
new Fe

163 Empty 1.7 5.6 1.7 5.9

full 5.16

Nucleiscale formed by heat
graphs 37
pressure plate
the grid

	gozo	right	clamp	65m in over one day

By reversing warm [illegible] letting it go 10 or 15 minutes [illegible] Rebop + Op. The amount of Cabot effect increases gradually, but the [illegible] to watch. Starts + acts with a lil [illegible] grid as the DXJ 66 motor.

605	220	98			3rd peg
610	198	82		17	
615	191	82		33	
615	280	70			4th peg
620	222	56	90	84	
625	100	24			

164

Empty 1.75
full 5.14

Dihydrated Goldsberg Lot No. H_2O_2
wet powder

Graphite 7/2
after dehydration powdered
+ moist with KOH before
pressing as it will not press without
KOH
plate

1047	387	96		46	
1055	328	80		42	
1	2.25	60		62	
1106	142	35		62	off

185 Empty 1.7 4.7

Bioded bag lost Wt Hydrate
pow pressed before dehydration
used low temp

Graphite
Wt returned with ROH,

Pressed pellets 2" long

250	390	97	122		
255	375	94.2	110	80	*
300	150	38		60	
305	138	33		62	
310	120	30		93	off
					2nd
734	350	85	122	63	
740	310	78	104	88	
750	300	76		88	
755	283	73	104	113	
8—	210	64		134	
805	147	38		147	* off — 3rd
184	350	91			
110	330	82	108	35	
115	312	79		64	
120	302	76		88	
125	285	72		112	
130	250	65		135	*
133	150	38		152	new Fe
136	250	20		154	
140	165	42		168	
145	150	38		181	
150	132	31		192	off

Very little swelling

186 Empty 1.7
full 4.95

Big lot Hydrate Mg very finely powdered, then thoroughly dehydrated — graphite
wet KOH 1
3

pressed plenty — broke — good deal comes out

807	340	87			Been on all night —
810	290	74		16	
815	216	52		37	— ng —

Enlarge amount of Cement of grid

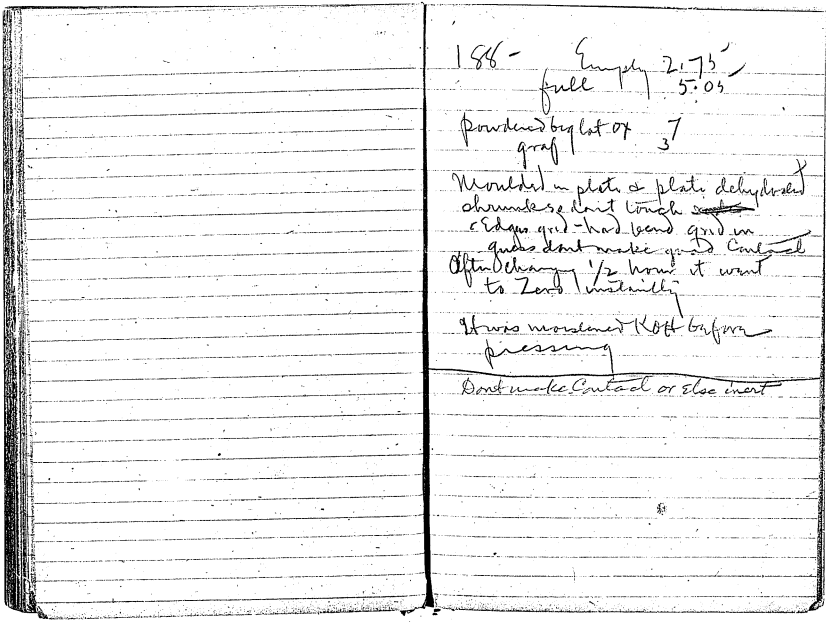
187 Empty 1.65

full 4.65

Phosphate Nickel Ni_3P_2 7/3
(under by element up strong)
Graphite 1.55 wet Ni

Uncoated KOH pressed plate
Heat gas for 1/2 hour - melting comes
over grid —

730 / 732	360 / 180	92				off — Has swelled Considerably
243 / 250	340 / 82	84				
928 / 930 / 940	320 / 215 / 192	80 / 34 / 39			39 / 529	Swelled Considerably off —



1886 - Empty 2.75
full 5.04

powdered by lot of graf 3

Moulded in plate & plate dehydrated
shrunk so don't touch
Edges grid - hard board grid on
grids don't make good Contact
Often change ½ hour it want
to Zero Instantly

Always measure KOH before
pressing

Don't make Contact or else inert

159 Empty 1.75
full 5.95

Anhydrous Ox Nickel boiled 7
in Hypochlorite Soda, washed
+ dried
graphite 3

Very heavy graphite shows in excess
I am reversing it 100 +fro

pressed plate, moistened KOH

I put it in KCl with some KOH
Blue hydrate & quartz out —
also Zeta girl where it Aq/mnls
only gave on 4th pos after
2 hours ox .35 Vol 80 MA

Mq

190- Empty 1.6
full 5.9

fine minscale from pulling
in tin plate, pulling red &
pulling hot & Bunching to gel 8
Scaly, Scale vary when
produced three 200 sheets
Graphite 2
pressed plate Mrs roland Kott

191 – Empty 1.65

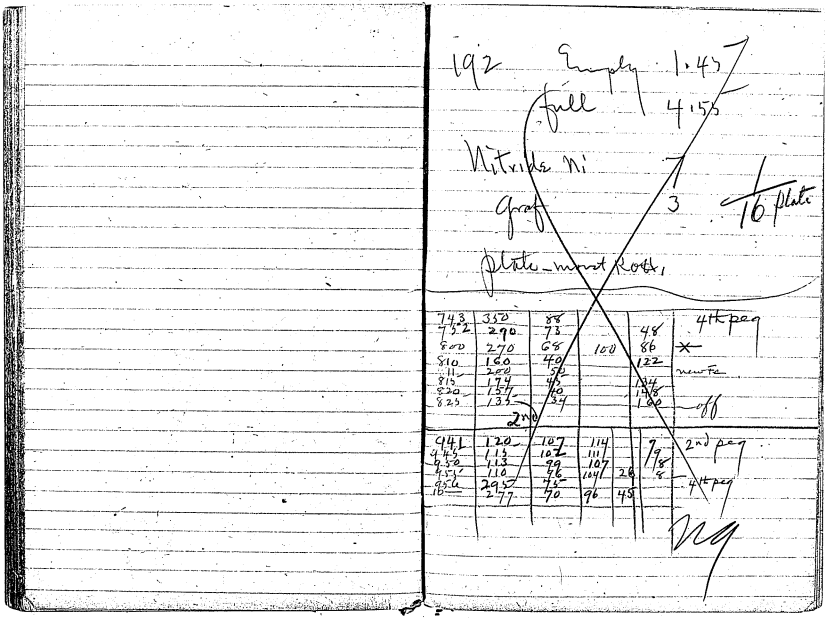
full – 4.17

Acetate. Excess KOH melted
put in – very light Color 7

graf 3

plate, most KOH –

904	330	88		
912	282	72	42	
925	110	25	87	off –

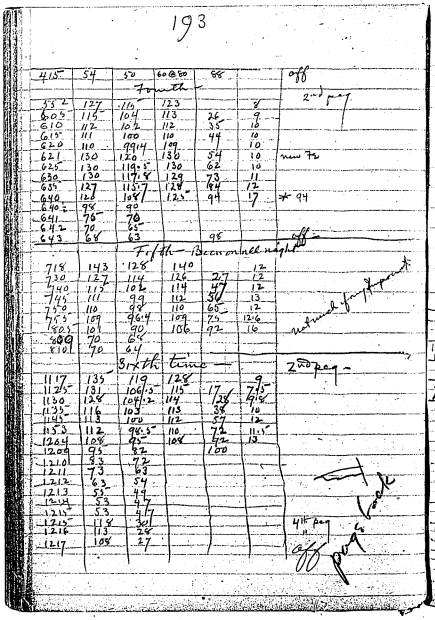

192
Empty 1.45
full 4.15
Nitrider ni
grad
3
16 plate
plate mount Roots
743 352 88
752 290 73
800 270 68 100
810 260 40
815 274 42
820 154 40
825 135 34
2nd
441 120 107 114
445 113 102 111
450 113 99 107
457 110 96 104
10 294 76 96
277 70
48 4th pas
86
122
134
148
100
78 2nd pas
4th pas

8/4/43 –
in KCl with Dome Free KOH.

945	650.		
952	540	49	
905	385	39	

193

405	147	129	140			
410	137	121	132	12	11	
415	130	116	120	23	14	
420	130	121	125	24	14	
426	127	112	126	26	14	
430	123	110	124	80	14	
437	121	107	122	69	10	
443	115	102	118	81	16	
445	120	107	126	85		Trans Fe
450	102	90	116	95		
457	90	78				off



193

415	54	50	60@80	88		off
		Fourth				2nd peg
35 2	127	110	123		8	
605	119	104	113	26	9	
610	112	102	112	35	10	
615	111	100	110	44	10	
620	110	99+4	109		10	
621	130	120	130	54	10	new Fr
625	130	119+5	130	62	10	
630	130	119+8	129	72	12	
635	127	115+7	128	84	12	
640	126	108+7	125	94	17	* 94
640	98	90				
641	76	70				
642	70	65				
643	68	63		98		off
		Fifth - Accumulation night				
718	143	128	140		12	
730	127	114	126	27	12	
740	117	104	114	39	12	
745	111	99	112	51	13	
750	110	98	110	60	12	
755	109	96+4	109	72	12+6	
1803	101	90	106	82	10	
809	70	64				
810	70	64				
		Sixth time				2nd peg
1117	135	119	128		9	
1125	131	106+3	115	17	7+5	
1130	126	109+2	114	28	9+8	
1135	116	103	113	38	10	
1145	113	100	112	52	12	
1150	112	96+5	110	72	11+7	
1244	108	95	104	92	13	
1200	95	82		100		
1210	93	72				
1211	73	64				
1212	63	57				
1213	53	44				
1214	53	47				
1215	53	47				
1215	114	101				
1216	113	28				
1217	108	27				

193 Simply 1.55 full 2.85

Matten Kott into Conc acet ni acetate in xpress — 3.15 1.15

Prep.

Mousland Kott — 1.7 grad

+ pressed pesto — .37

+ swabb somen!

		Four			did		
1203	260	114	124			3rd peg	
1205	223	99	116	8	-17		
1210	190	82	110	25	-44		
1211	100	40		27			
1216	86	38		34			
		Seven				2nd peg	
1255	245	109	124		-16		
157	200	104	116	7	-14	3rd peg	
2	155	96	112	17	-18		
205	212	92	110				
205	160	76		33			
208	140	66		41		Bad Cut	
208	207	88					
210	208	87	108	48	21		
213	180	72		58			
215	100	42		84		off	
		Jhon					
327	137	120	130		10	2nd peg	
330	125	111	121	6	10		
335	120	107	116	16	9		
340	117	103	114	26	9		
345	116	104	114	35	10		
350	113	102	112	45	10		
355	113	101	111	54	10		
4	112	100	110	64	10		
405	111	96	110	73	12		
410	108	88	108	85	22		

Late-seed Jhon's 125 - 1 week later than Hybrid 1902 - 1402

752	143	127	139		
8—	126	111	128		18
815	113	100	122		48
820	103	92			57
820	118	106	126		67
825	117	104			76
830	113	101			83
835	110	96			
836	119	104			
840	117	104	126		93
845	114	102/3	125		103
850	116	102			112
855	112	99			122
9—	103	90			131
901	90	82			
902	80	72			
903	90	80			

new Fe

new Fe

Thunderstorm this much

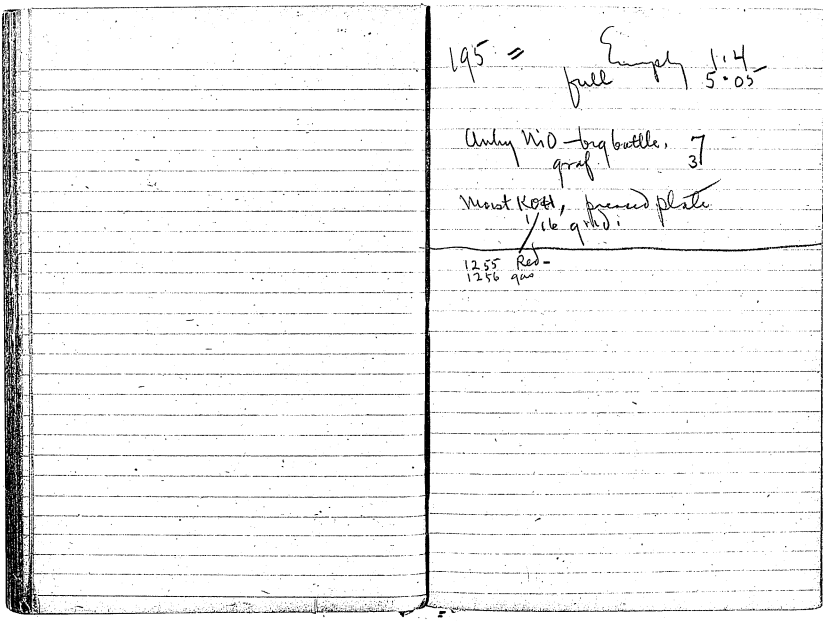
Empty 1.55
full 2.95

194— Same as 193 .98 MOX

Bird is reduced in water into which a tablespoonful 20% KOH in to prevent swelling

3rd run as after Geng in Reg KOH,

1120	211	94			3rd pay	Smells scarcely any	
1121	93	36			off		1st
216	130	114	124		2nd pay		2nd
220	100	90		9	off		
221	60	54					
		3rd					
1010	133	117	124			7	2nd pay 3rd
1017	110	96	103				
1019	145	130	140		18	12	new Fe
1025	132	118	128		32		
1030	124	109	122		43	12	
1032	117	102	119		53	12	
1052	110	96			65		
1—	103	92	106		100	14	
1104	50	46					off—
			Fourth				2nd pay
3—	140	123	136			13	
305	120	105	114		11	9	
310	113	100	112		20	13	
317	108	96	108		33	13	
330	106	94	106		38	14	
335	103	92	106		47	14	
326	127	113	132		48		new Fe
330	123	109	128		57	19	
336	122	109	127		69		
341	120	107.2	125		79	18	% notice that there
345	120	107	125		87		is scarcely any
350	120	106	124		97		swelling even after 2
355	117	104	123		104		off—
1—	114	102	122		114		
401	108	94					
402	98	79					


195 = full Empty 1:4
5.05
Anchy NiO-torq battle, grad 37
Moist KOH, pressed plate
1/16 grid.
1255 Red-
1256 qw

1/32 grid

1/16 Empty 1.6

full 2.8

Ni Hydrate from precipitated KOH + acetate

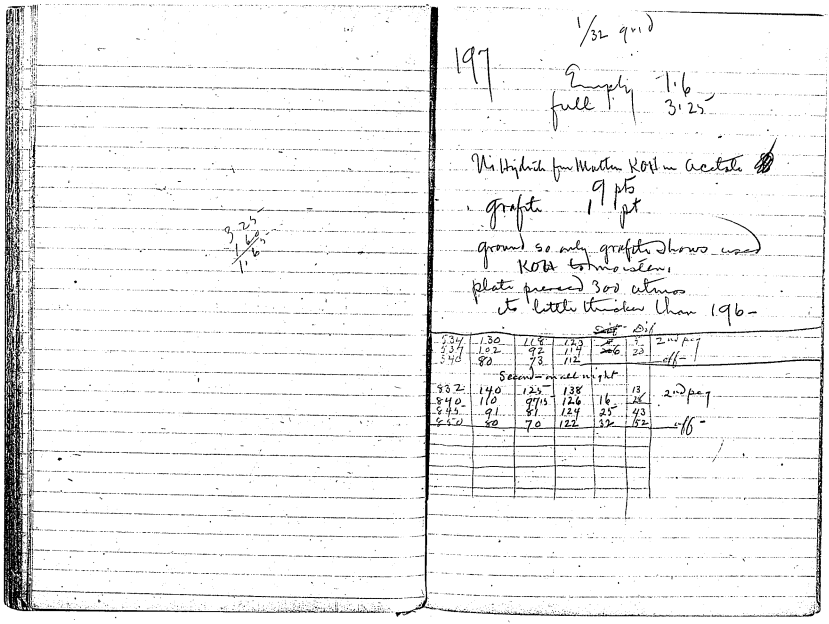
plumbago 2

Mount KOH & ground so can see only graphite —

pressed plate 200 atmos.

5:11	123	112	122	12	10	2nd peg
5:45	93	88	112	20	20	
5:55	84	77	110	20	40	off
		second		weight		
8:10	141	124	140		16	
8:15	117	99	130	10	29	2nd peg
8:20	100	88	126	19	38	
8:25	90	80	124	3/4	44	
8:30	83	75	122	3/4	47	off
5:52	140	124	134			
5:55	116	103	132	6	42	
6	102	95	130	15	42	great diff bet Volts

off 1/4



1/32 grid

197

Empty 1.6
full 3.25

Wi Highrich for Martha KOH in acetate

graft 1 9 pts
1 pt

ground so only grafts shows used
KOH tomorrow.
plate poured 300 atmos
& little thicker than 196-

				Scatt	Dil	
534	130	118	123	5	3	2nd pg
537	102	92	114	26	23	
540	80	73	112			off

Second on wall night

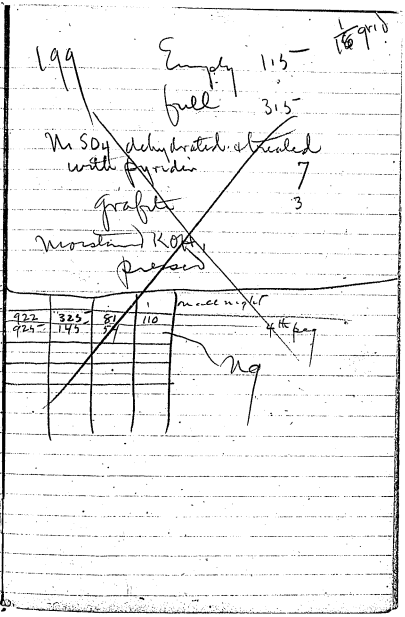
532	140	125	138		13	
840	110	97.5	126	16	28	2nd pg
543	91	81	124	25	43	
550	80	70	122	32	82	off

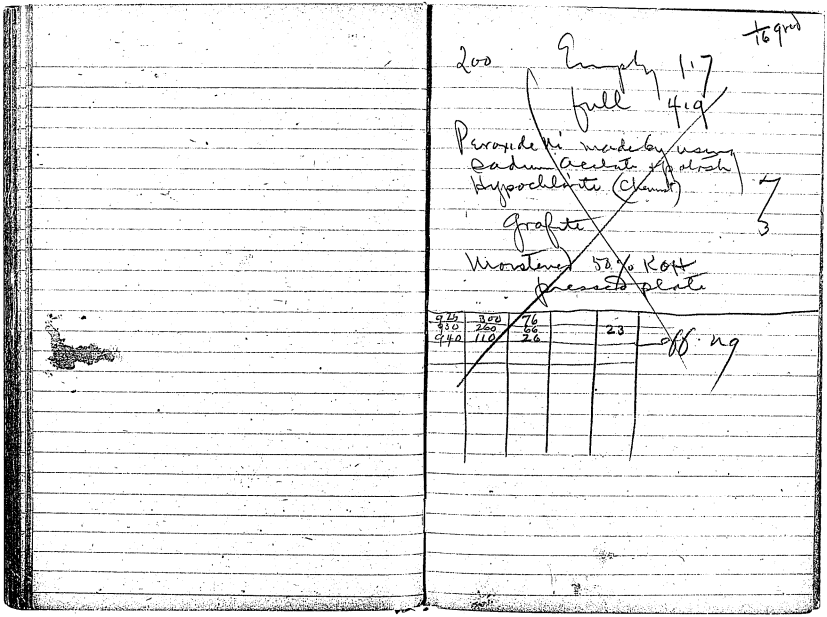
198 Empty 1.6 ± 32 grad
full 3.05

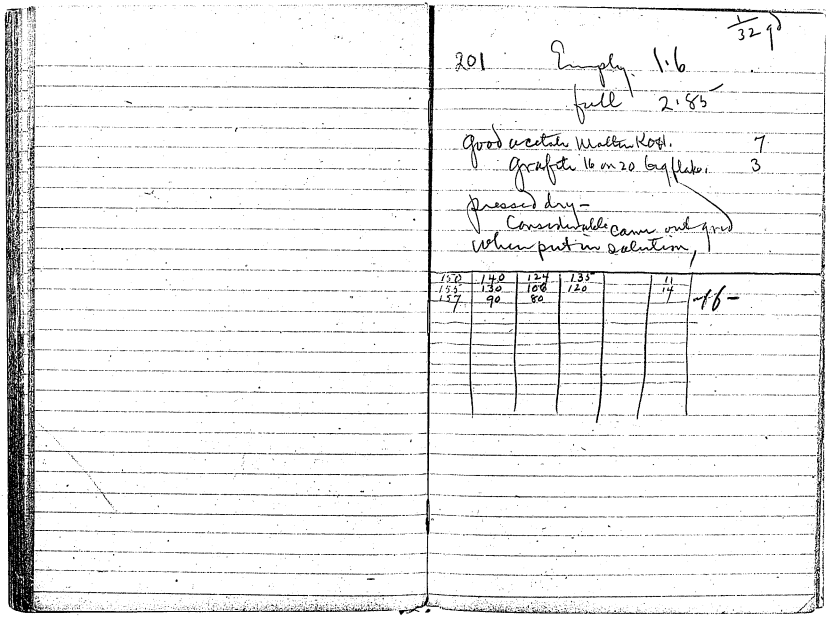
Mg hydrate Mullein KOH in acetate 9
grafts 1

ground with KOH to powder
1+ only show grafts,
these mixed 2+ pts. grafts
20 or 30. but not ground and
mixed plate pressed
broken

951	137	122	136			
852	130	113	126			11
905	117	103	120	20	23	
910	110	97.3	116	30	19	
915	102	90	112	39	32	
920	87	76		47		off


1/16 grid
199
Empty 1.5–
full 3.5–
Na SO4 dehydrated + shaken
with pyridine
7
3
graft
Monsanto KOH
prepared
922
923
323
145
81
110
made up to
4th day
Mg


+6 grms
200
Empty 1.7
full 4.9
Peroxide is made by using
Sodium Acetate + Sodium
Hypochlorite (Clorox)
Graphite
Moisture 50% KOH
Pressed plate
925 300 76
950 260 66
940 110 26
23
off. ng



1/32 p

201 Empty 1.6
full 2.85

good vegetative Medium Knot. 7
Grafted 16 on 20 by Hebo. 3

pressed dry -
Consolidated came out good
when put in solution,

150	140	124	135			11	
155	130	108	120			14	
137	90	80					46 -

202. Empty 1.6
full 2.9

good article Mallen Rose
graft = 16 on 20 by blade 7/3

Worst Rot

201 - Lots came out [illegible] dry
202 Very little [illegible] came out of qual - was wet

5	142	126	134		8	scarcely any swelling
5	130	115	124	11	9	
5 10	110	95	112	21	14	
5 13	100	86		24		off
5 15	50	79		28		

203

1/32 grid
Empty 1.65
full 3.00

Express Malten KOH into crucible ni 6
Graphite 30 on 50 4
Mond KOH - pressed plates, 8 of nio

140	130	131	144			2nd peg -
146	130	115	128	14	13	76
147	60					
25	135	118	130		12	
32	116	103	112	10	9	
33	112	100		17		
25	112	98	107	21	8	
5140	108	98	104	30	8	
5145	102	5902	104	39		
147	50	44				off -
122	140	124	138		14	2nd peg 41a
137	113	100		32		Run 77
4513	50					

204 Empty 1.65
full 3.15

Acetate made from excess Melton KOH dried, then put in 20% KOH + granular residual washed + dried. 7

Grafolin 30 min 50 3

Washing KOH, not ground
Wounded by 5 crew pieces
plate 52/1000 — after polish
4 yr later measure 61/1000

10.02	124	112	120	16	8
10.10	137	102			
10.15	112	100		43	
10.30	110	97			
10.40	105	93		52	
10.55	103	93			
11.03	122	116		80	
10.45	60				

new Fan
off —

7 4 3 graph 1/16 grid

Nitrids of Iron with Zinc

Open Circuit 1 Volt

Mounted plate .62 on 1.6 ohm

.34 on .222 ohm 135 ma

Nitride Molybdenum 7

Mounted plate graph 3

170 ma on .7 ohm .64 Volt,

125 ma on .37 ohm .53 Volt,

pretty steady,

after being on .37 for 3 minutes

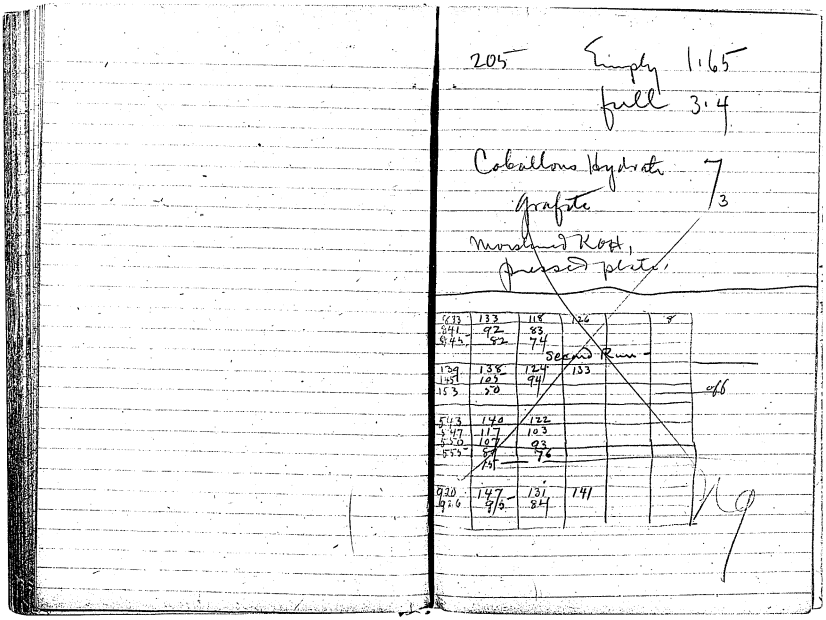
going to .7 gave 65 ma .6 Volt,

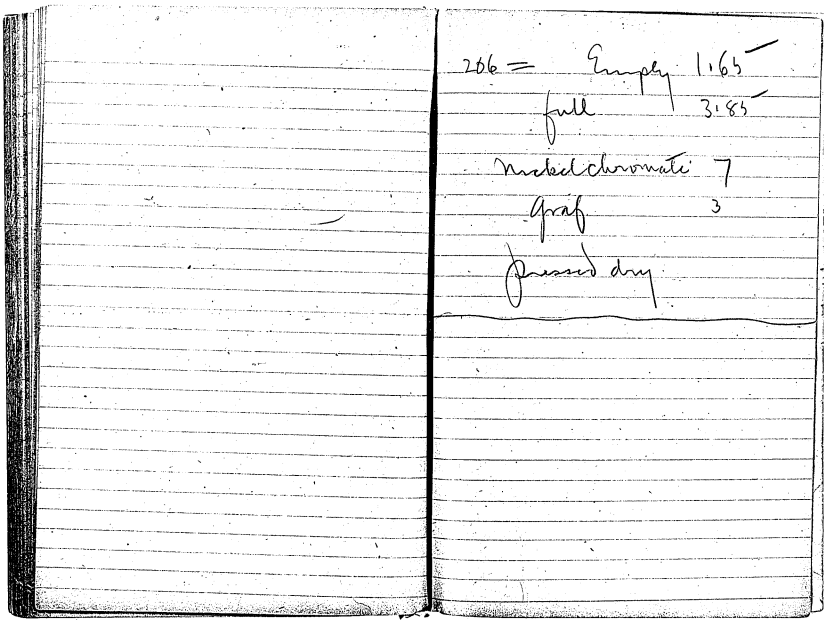
20	65	60	66 steady	2nd pt
.4	64	58		

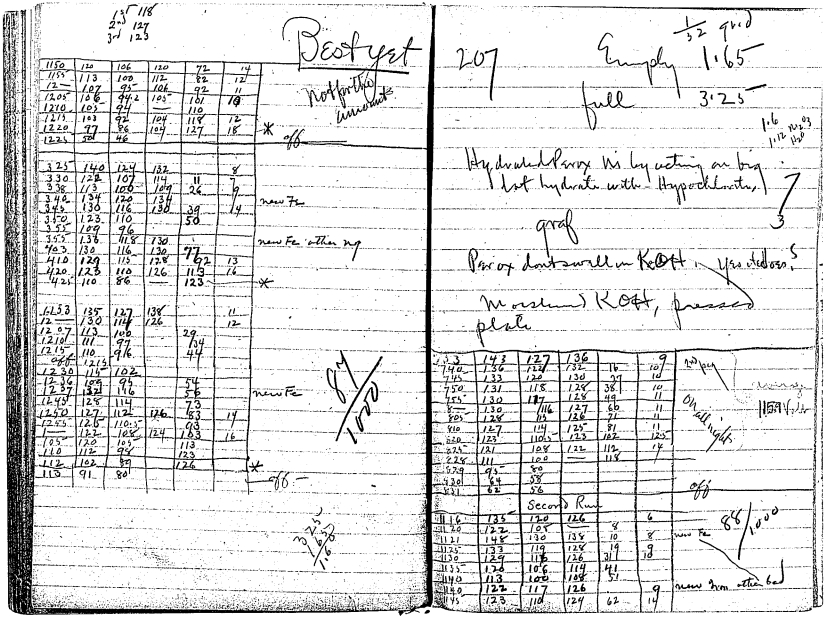
Nitride Boron

.78 ohm 30 ma .27 Volt

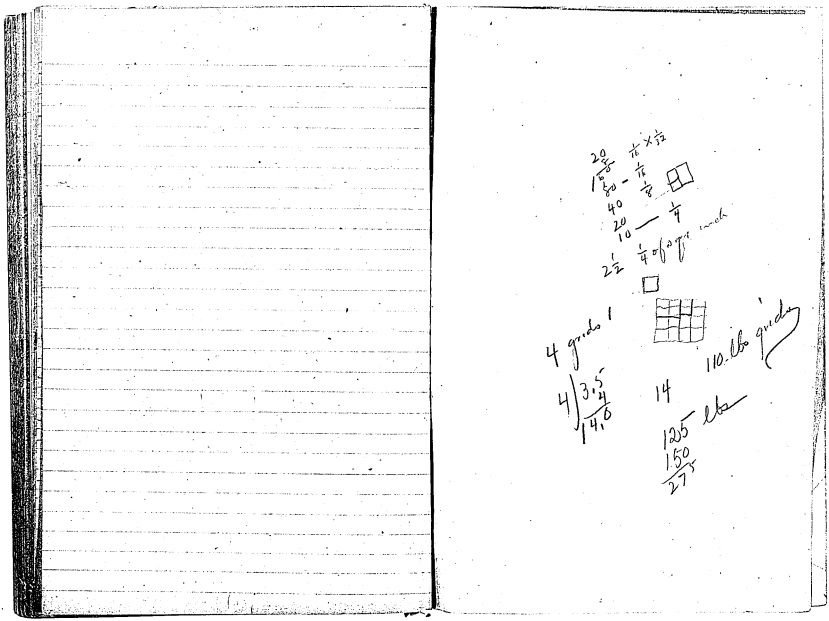
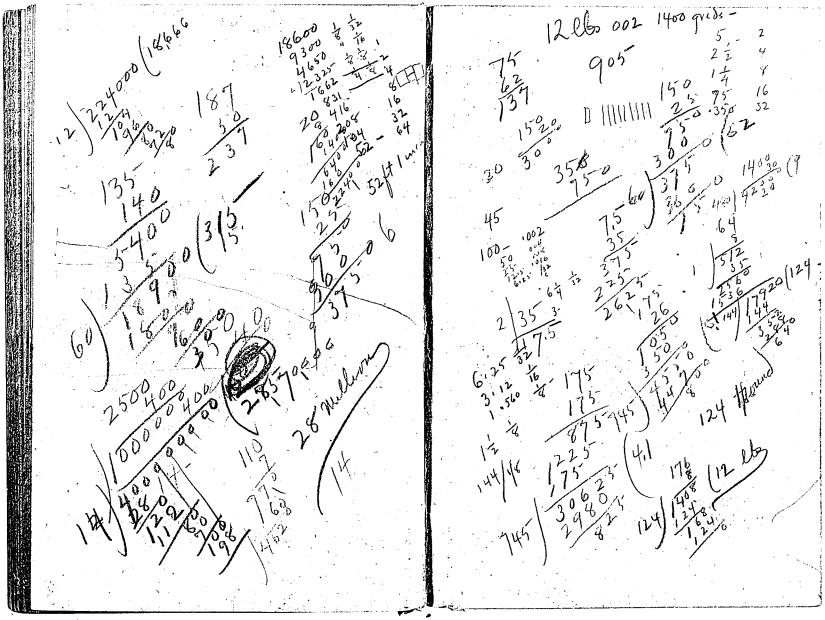
NG


205
Empty 1.65
full 3.4
Cobaltous hydrate
graphite
Mounted Rod,
pressed plate.
7/3
Second Run
off


206 = Empty 1.165
full 3.185
Nickel chromate 7
graf 3
pressed dry



Beetyest
Not for this animal
1st 118
2nd 127
3rd 123
1150 120 106 120 72 14
1155 113 100 112 82 12
12 107 95 106 92 11
1205 116 99.2 103 101 18
1210 103 94 — 110
1215 103 92 104 114 12
1220 97 86 104 127 18 *
1225 88 96 off
1235 140 124 132 8
330 128 107 114 11 7
338 113 100 109 26 6
340 134 120 134 14
345 130 116 130 39
350 123 110 50
355 109 96
355 138 118 130 77/72
405 130 116 130 13
410 129 115 128 14
420 123 110 126 119
425 110 86 — 123 *
1433 135 127 138 11
12 130 114 126 12
12 07 123 108 29
1210 111 97 34
1215 110 96 44
98 1215
1230 114 102
12 36 109 97 54
1237 121 106 58
1245 116 114 73
1250 127 112 126 63 14
1255 120 110.5 93
1300 122 108 124 103 16
105 120 103 113
110 112 99 123
115 102 89 126 *
113 91 80 off
84/100
1:6 89.3
1:12 84.0
207
Empty 1/2 grad 1:65
full 3:25
Hydrochloric Acid by acting on bog lost hydrate with Hypochlorites
graf
Prior dont swell in KOH. Yes tedious
Mossman KOH, pressed plate
1:3 147 127 136 9
140 136 128 132 16 10
145 133 120 130 10
150 131 118 128 38 10
155 130 117 127 49 11
200 130 116 127 60 11
205 128 — 125 72 11
210 127 114 125 81 11
220 123 110.5 123 102 12.5
225 121 108 122 119 14
229 111 102 — 118
229 93 80
230 84 58
231 82 56
Second Run
116 135 120 126 6
120 132 105 8 8
121 148 130 134 10 8
125 133 119 128 19 9
130 129 115 126 21 10
135 130 106 114 41
140 113 100 108 57
150 122 117 126 9
155 123 110 124 62 14
1:6 89.3
1:12 84.0
1st
2nd all nights
1659 1/2 1/2
off
88/1000
new Fe
new Fe other leg


4 grades 1
4 | 3.5
4
1 6
14
110. lbs grades
125 lbs
150
27